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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,460	04/20/2004	Paul J. Garnett	5681-03702	3996

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EXAMINER

BUI, HUNG S

ART UNIT	PAPER NUMBER
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2841

DATE MAILED: 08/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/828,460	GARNETT ET AL.	
	Examiner	Art Unit	
	Hung S. Bui	2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 72-95 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 72-95 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/25/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 72-80, 82-86, 88-90 and 92-93 are rejected under 35 U.S.C. 102(e) as being anticipated by Derrico et al. [US 2002/0078290].

Regarding claim 72, Derrico et al. disclose a carrier enclosure system, wherein the carrier enclosure has at least one sever blade receiving location (figure 1), comprising at least one server blade (102a, abstract), wherein the server blade includes:

- a blade enclosure with two opposing side faces, a front edge face, a rear edge face, an upper edge face and a lower edge face (figure 1);
- wherein the blade enclosure includes at least one ventilation opening (as shown connected with a fan 120a) on each of the front and rear edge faces to permit a flow of cooling air through the blade enclosure between the front and rear edge faces (figure 1);
- wherein the blade enclosure is configured to slideably mount into the carrier (paragraph 0022, lines 13-17);

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- wherein the blade enclosure includes at least one connection (124a) accessible externally to the blade enclosure and located on the rear edge face (figure 1); and
- wherein the at least one server blade receiving location of the carrier enclosure is configured to receive the server blade (figure 1).

Regarding claim 73, Derrico et al. further disclose the carrier enclosure system having at least one power supply (106) operable to supply direct current (DC), at least one switch (110) operable to distribute information signals; and at least one service processor (108) operable to distribute system management signals.

Regarding claims 74-75, Derrico et al. disclose the carrier enclosure system having connection midplane (104) carrying at least one conductive path interconnecting at least one carrier connector for carrying power, information signals, and system management signals (figure 1).

Regarding claims 76-77, Derrico et al. further disclose the midplane comprising a first face and a second face; wherein the at least one server blade receiving location is located at the first face of the midplane; and wherein a location for receiving the at least one power supply, at least one switch, and at least one service processor is located at the second face of the midplane (figure 1).

Regarding claim 78, Derrico et al. disclose the midplane being a printed circuit board (paragraph 0022, line 5) and the at least one conductive path comprises at least one track on the midplane.

Regarding claim 79, Derrico et al. disclose the connection midplane comprising a first face and a second face; wherein the carrier comprises at least one server blade receiving location with an opening in the first face and at least one server blade receiving location with an opening in the second face for receiving a field replaceable module; and wherein the connection plane includes at least one connection midplane connector for each server blade receiving location and at least one conductive path for interconnecting the at least one connection plane connector (figure 1).

Regarding claim 80, Derrico et al. the carrier enclosure further comprises at least one power supply receiving location configured to receive a field replaceable power supply (paragraphs 0038-0039).

Regarding claims 82-84 and 86, Derrico et al. further disclose the carrier system having two support module receiving locations configured to receive a field replaceable switch, processor and server blade (figure 1).

Regarding claim 85, Derrico et al further disclose the switch and service processor module being removable (paragraphs 0041, 0042).

Regarding claim 88, Derrico et al. disclose the server blade receiving locations including at least one guide for guiding the server blade into the server blade receiving location (column paragraph 008, lines 11-21).

Regarding claim 89, Derrico et al. disclose the connection mid plane being a passive component.

Regarding claim 90, Derrico et al. disclose a storage blade being configured to be received in the server blade receiving location (figure 1).

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Regarding claims 92-93, Derrico et al. disclose the carrier enclosure system being configured as a rack mountable system.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 81 rejected under 35 U.S.C. 103(a) as being unpatentable over Derrico et al.

Regarding claim 81, Derrico et al. disclose the instant claimed invention except for the system having two power supply receiving locations.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use an additional power supply receiving locations in the carrier system of Derrico et al., since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use an additional power supply receiving locations in the carrier system of Derrico et al., for the purpose of backing up the power for the carrier system.

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5. Claims 87 and 94-95 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derrico et al. in view of Schwegler et al. [US 5,473,507].

Regarding claim 87, Derrico et al. disclose the instant claimed invention except for at least one blade enclosure provides electromagnetic shielding.

Schwegler et al. disclose a chassis of a device (figure 1) having an enclosure formed of metal (column 4, lines 1-12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use metal for the enclosure of Derrico et al., as suggested by Schwegler et al., for the purpose of protecting components from EMI of the system.

Regarding claim 94, Derrico et al. in view of Schwegler et al. disclose the blade enclosure having a narrow elongate form.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the enclosure design of Schwegler et al. of the enclosure of Derrico et al., for the purpose of saving space in the carrier enclosure system.

Regarding claim 95, Derrico et al. disclose the opposing side faces and the upper and lower edge faces having substantially a same length, the front and rear edge faces having a length substantially equivalent to the width of the opposing side faces, and the front and rear edge faces having a width substantially the same as the width of the upper and lower edge faces (figure 1).

6. Claim 91 is rejected under 35 U.S.C. 103(a) as being unpatentable over Derrico et al. in view of O'Sullivan et al. [US 6,061,244].

Regarding claim 91, Derrico et al. disclose the instant claimed invention except for the carrier enclosure system having carrying status indicators.

O'Sullivan et al. disclose a carrier system (figure 1) having at least one electronic device (14) with at least one indicator (16) mounted therein.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the indicator element with the carrier system of Derrico et al., as suggested by O'Sullivan et al., for the purpose of indicating status of the components in the carrier system.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S. Bui whose telephone number is (571) 272-2102. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

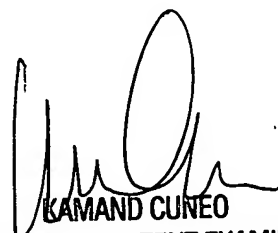
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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/1/05

Hung Bui

Art Unit 2841



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